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1. Document ID: JP 2002194080 A

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File: DWPI

Jul 10, 2002

DERWENT-ACC-NO: 2002-685440

DERWENT-WEEK: 200274

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TITLE: Biodegradable polymers useful for e.g. drug carriers, cosmetics, surfactants and food additives contain both hydrophilic and hydrophobic parts

PATENT-ASSIGNEE:

ASSIGNEE	CODE
MITSUI CHEM INC	MITA

PRIORITY-DATA: 2000JP-0397817 (December 27, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 2002194080 A</u>	July 10, 2002		020	C08G073/10

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP2002194080A	December 27, 2000	2000JP-0397817	

INT-CL (IPC): C08G 69/48; C08G 73/10

ABSTRACTED-PUB-NO: JP2002194080A

BASIC-ABSTRACT:

NOVELTY - Polymer contains a hydrophilic part and a hydrophobic part.

DETAILED DESCRIPTION - Polymer contains a hydrophilic part and a hydrophobic part. The hydrophilic part contains repeating units comprising $\text{CH}((\text{CH}_2\text{COX}_1\text{R}_1)\text{n}_1)\text{CONH}$ and/or $\text{CH}(\text{COX}_1\text{R}_1)(\text{CH}_2\text{CONH})\text{n}_1$ and $\text{CH}((\text{CH}_2\text{COOM})\text{n}_2)\text{CONH}$ and/or $\text{CH}(\text{COOM})(\text{CH}_2\text{CONH})\text{n}_2$ (50-90% per total repeating units).

The hydrophobic part contains at least two types of repeating units of $\text{CH}((\text{CH}_2\text{COX}_3\text{R}_3)\text{n}_3)\text{CONH}$ and/or $\text{CH}(\text{COX}_3\text{R}_3)(\text{CH}_2\text{CONH})\text{n}_3$, $\text{CH}((\text{CH}_2\text{COX}_4\text{R}_4)\text{n}_4)\text{CONH}$ and/or $\text{CH}(\text{COX}_4\text{R}_4)(\text{CH}_2\text{CONH})\text{n}_4$ and $\text{CH}((\text{CH}_2\text{COX}_5\text{R}_5)\text{n}_5)\text{CONH}$ and/or $\text{CH}(\text{COX}_5\text{R}_5)(\text{CH}_2\text{CONH})\text{n}_5$ (10-50% per total repeating units).

R1 = pendant group containing at least one functional group of carboxyl or its salt, sulfonic acid group or its salt, trialkylammonio, OH or amino;

R3 = 4-12C straight hydrocarbyl;

R4 = 13-20C straight hydrocarbyl;

R5 = 4-20C branched hydrocarbyl;

X1, X3-X5 = NH, N(R'), O or S;

R' = alkyl, aryl or aralkyl;

n1-n5 = 1 or 2, and

M = alkali metal ion, alkaline earth metal ion or ammonium ion.

An INDEPENDENT CLAIM is also included for production of the polymers which involves introducing the pendant groups.

USE - The polymers are useful for dispersants for pigments, agrochemical granules, fine powdery carbon, cement and lubricating oil cleaning, scale inhibitors, flow point-lowering agents, plastic coloration auxiliaries, compatibilizers, macromolecular flocculants, filtering agents, yield improvers, printing ink binders, hair set polymers, binders for unwoven fabrics, plastic-reinforced fibers, electrophotographic toners, magnetic tapes, resin concrete, molding sand and fine ceramics, sealants, adhesives, foam stabilizers, antifoamers, emulsion breakers, lubricants, polymers for coatings, floor polishes and photoresists, tablet coatings, masking agents, optical fiber coatings, plastic hardcoats, moistureproof coatings for printed wiring boards, paper sizes, paper strengthening agents, glazing coatings, resist treatments for fibers, antistatic agents, conductors, electromagnetic wave-shielding coatings, waterproof agents for concrete, primers, printing sizing agents, polymers for petroleum production, civil engineering, quenching oils and hydraulic oils, viscosity index improvers, plasticizers, oil absorption polymers, agents with binding action for builders, chelating polymers, dyes fixers and epoxy resin curatives, sustained releasing carriers for drugs, agrochemicals and fertilizers, emulsions, creams, cleansing creams, powders, lip sticks, toilet waters, lotions, wet tissues, manicures, pedicures, humectants, packs, shaving creams, after-shaving lotions, hair tonics, hair liquids, hair sprays, deodorants, hair styling agents, perfumes, eau de colognes, eau de toilettes, fragrances, bath products and aromatizers.

ADVANTAGE - The polymers have good biodegradability and safety and both hydrophilicity and hydrophobicity without irritability.

CHOSEN-DRAWING: Dwg. 0/0

TITLE-TERMS: BIODEGRADABLE POLYMER USEFUL DRUG CARRY COSMETIC SURFACTANT FOOD ADDITIVE CONTAIN HYDROPHILIC HYDROPHOBIC PART

DERWENT-CLASS: A23 A96 B07 C07 D21 D25

CPI-CODES: A05-F01E; B04-C03D; B12-M09; B14-R01; C04-C03D; C12-M09; C14-R01; D08-B10; D08-B13; D11-A; D11-B19; D11-D06;

CHEMICAL-CODES:

Chemical Indexing M1 *01*
Fragmentation Code
G001 G002 G010 G019 G020 G021 G029 G040 G100 G111
G112 G113 G221 G299 H100 H101 H102 H103 H181 H182

H183 H401 H402 H403 H404 H405 H481 H482 H483 H484
H713 H716 H721 H722 H723 H731 H732 J0 J013 J014
J1 J173 J271 J272 J273 J290 J341 J342 J371 J372
J373 K431 K499 L722 L724 M210 M211 M212 M213 M214
M215 M216 M220 M221 M222 M223 M224 M225 M226 M231
M232 M233 M271 M272 M273 M281 M282 M283 M311 M312
M313 M314 M315 M316 M321 M322 M323 M331 M332 M333
M342 M343 M349 M373 M381 M383 M391 M392 M393 M423
M510 M520 M530 M531 M532 M533 M540 M630 M640 M650
M710 M720 M904 M905 N153 N209 N241 N261 N262 N263
N309 N331 N341 N342 N352 N422 N513 Q120 Q220 Q254
Q273 Q315 Q332 Q338 Q348 Q616
Markush Compounds
200073-38201-N 200073-38201-P

Chemical Indexing M2 *02*

Fragmentation Code
H1 H100 H181 M220 M222 M232 M273 M281 M320 M416
M620 M730 M904 M905
Specific Compounds
07884K 07884S

Chemical Indexing M2 *03*

Fragmentation Code
H1 H100 H181 M225 M231 M273 M281 M320 M416 M620
M730 M904 M905 M910
Specific Compounds
01064K 01064S
Registry Numbers
1064S 1064U

Chemical Indexing M2 *04*

Fragmentation Code
H1 H100 H181 M225 M231 M273 M281 M320 M416 M620
M730 M904 M905 M910
Specific Compounds
01065K 01065S
Registry Numbers
1065S 1065U

Chemical Indexing M1 *05*

Fragmentation Code
H1 H100 H181 J0 J012 J1 J172 M280 M312 M321
M332 M343 M349 M381 M391 M416 M423 M620 M730 M904
M905
Specific Compounds
A0LRDK A0LRDS

Chemical Indexing M1 *06*

Fragmentation Code
H1 H100 H181 J0 J012 J1 J172 M280 M313 M321
M332 M343 M349 M381 M391 M416 M423 M620 M730 M904
M905
Specific Compounds
A1EEOK A1EEOS

SECONDARY-ACC-NO:
CPI Secondary Accession Numbers: C2002-194085

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